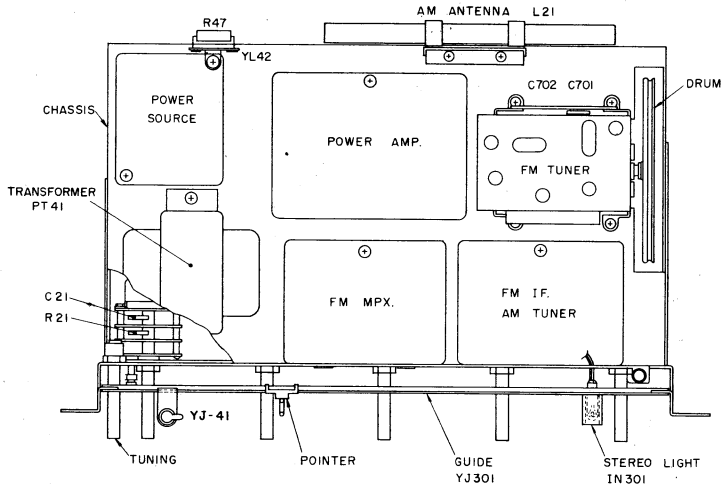
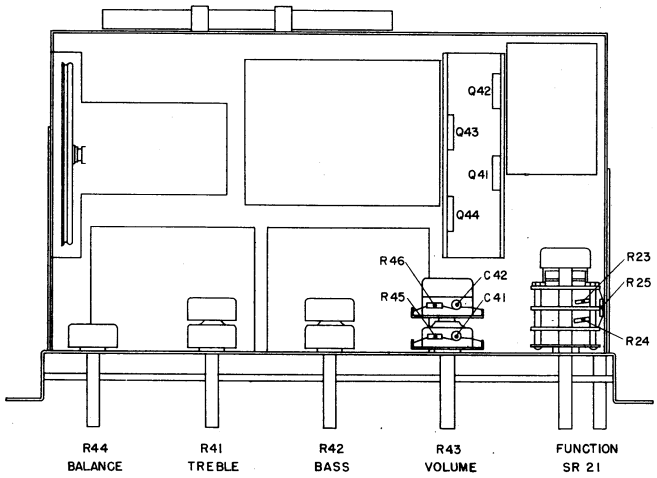
NOTICE

Do not remove this sheet

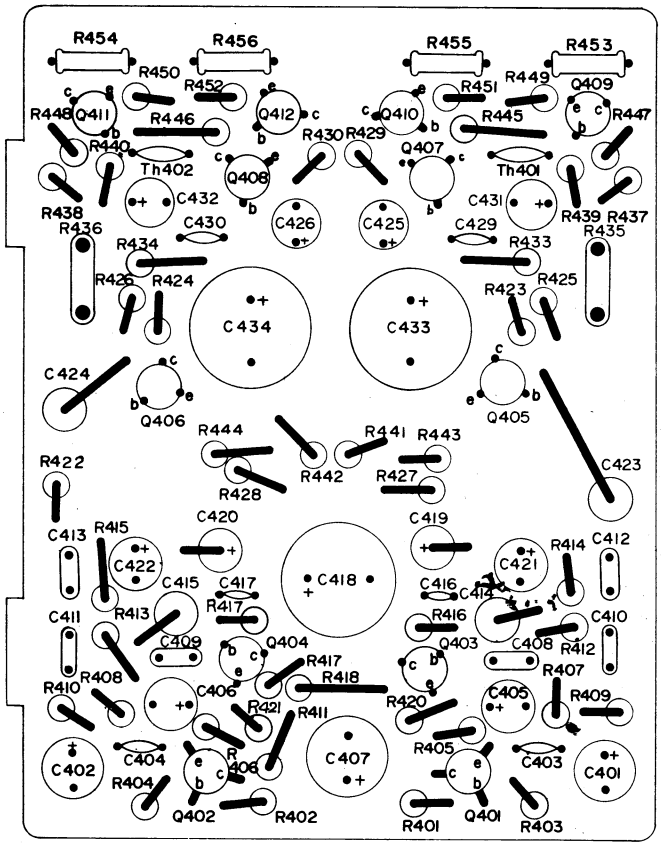
The information will be invaluable to your serviceman



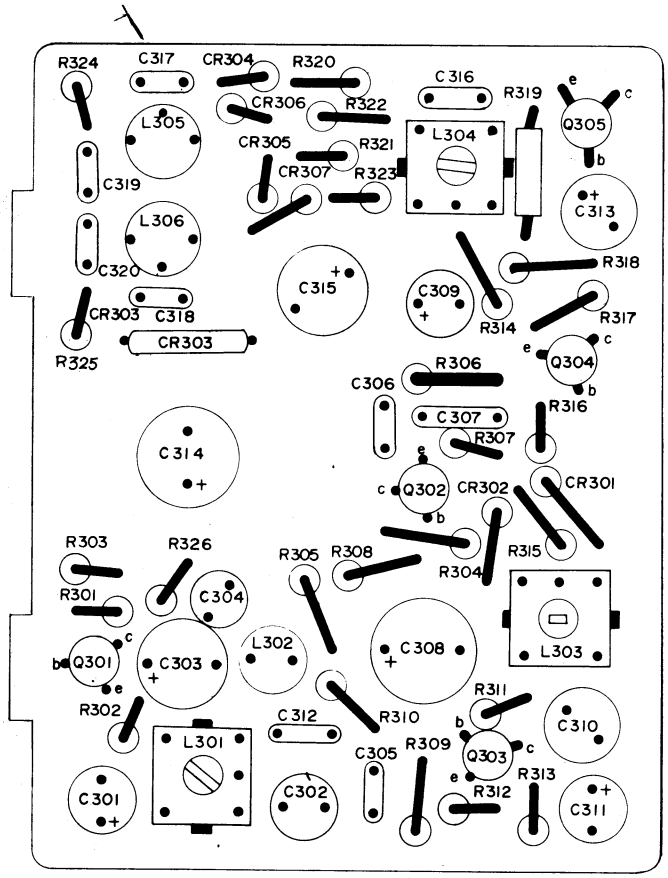
TOP VIEW CHASSIS



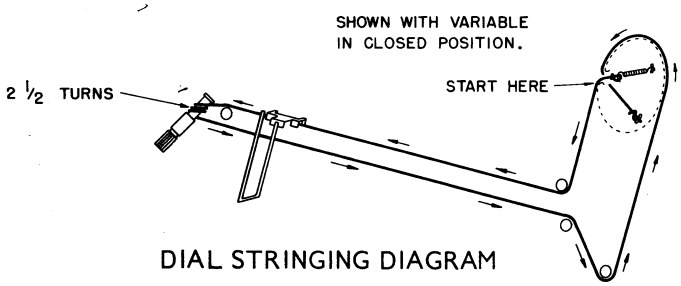
BOTTOM VIEW CHASSIS



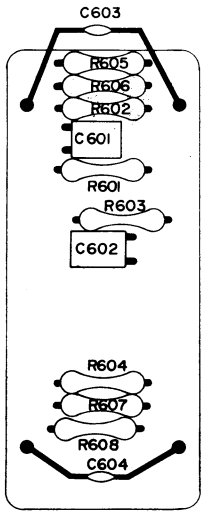
AUDIO AMPLIFIER



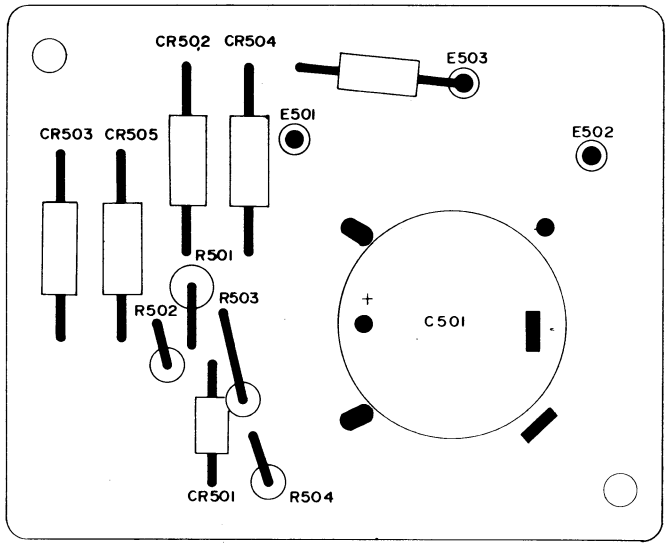
MULTIPLEX DECODER



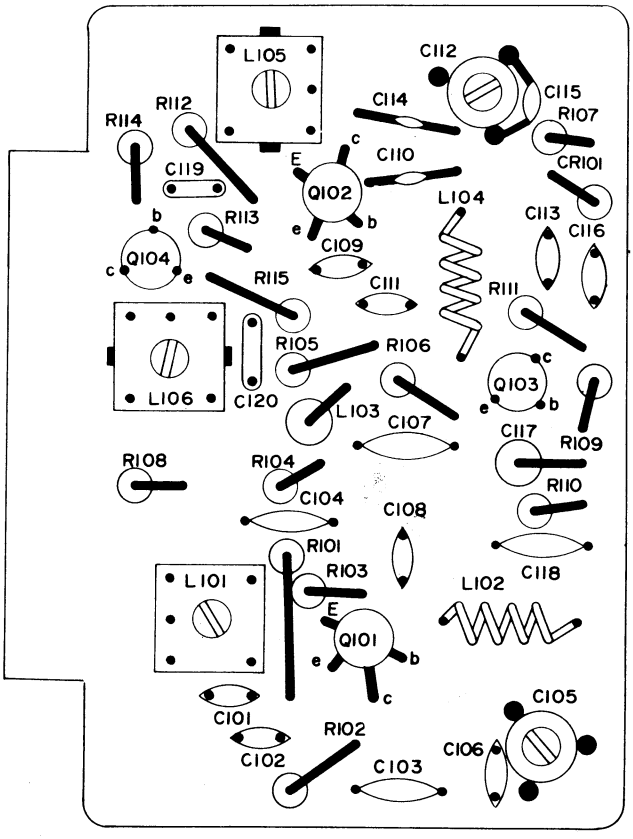
DIAL STRINGING DIAGRAM



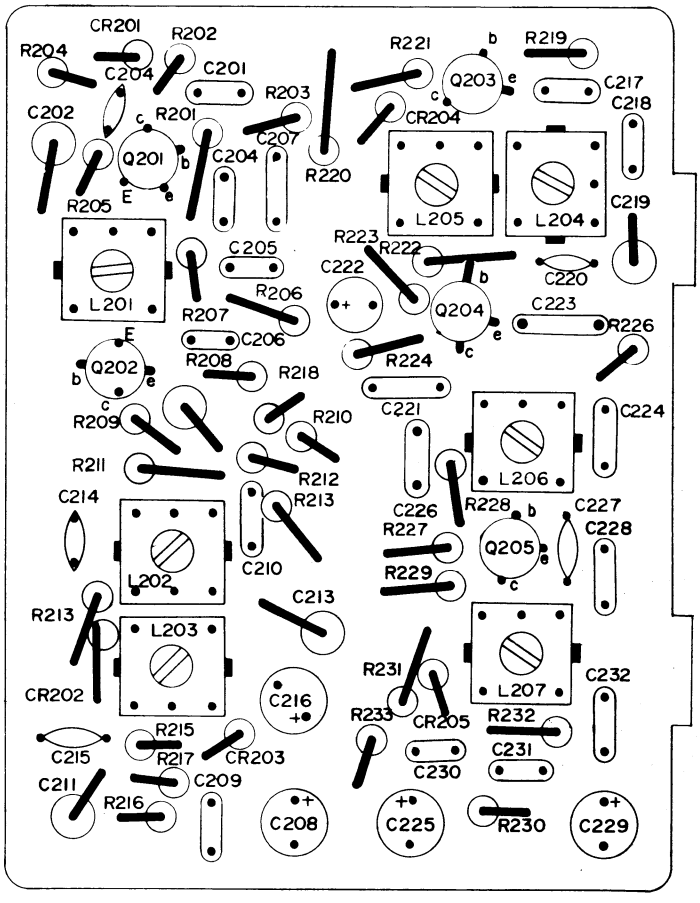
EQUALIZER BOARD



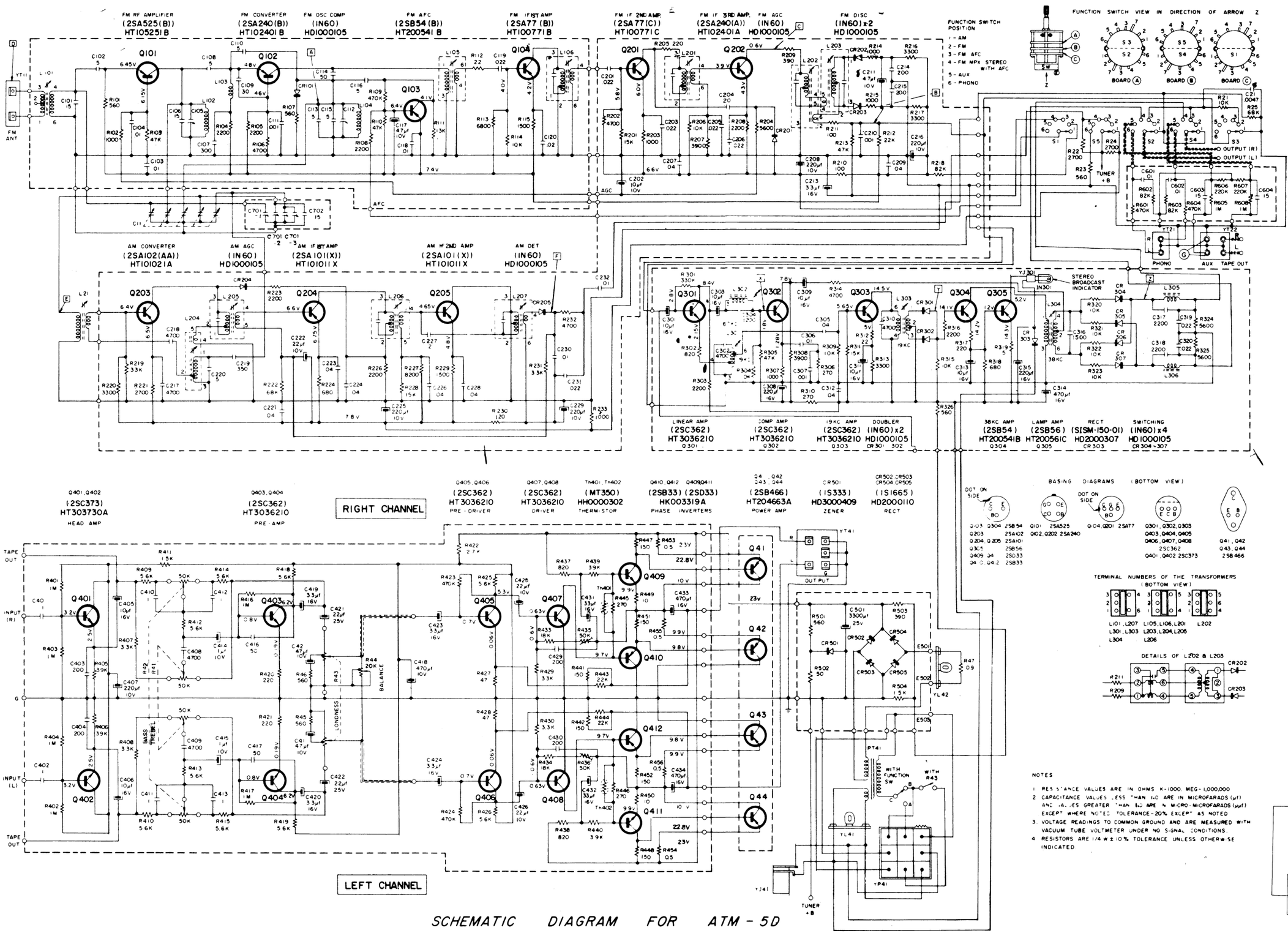
POWER SUPPLY

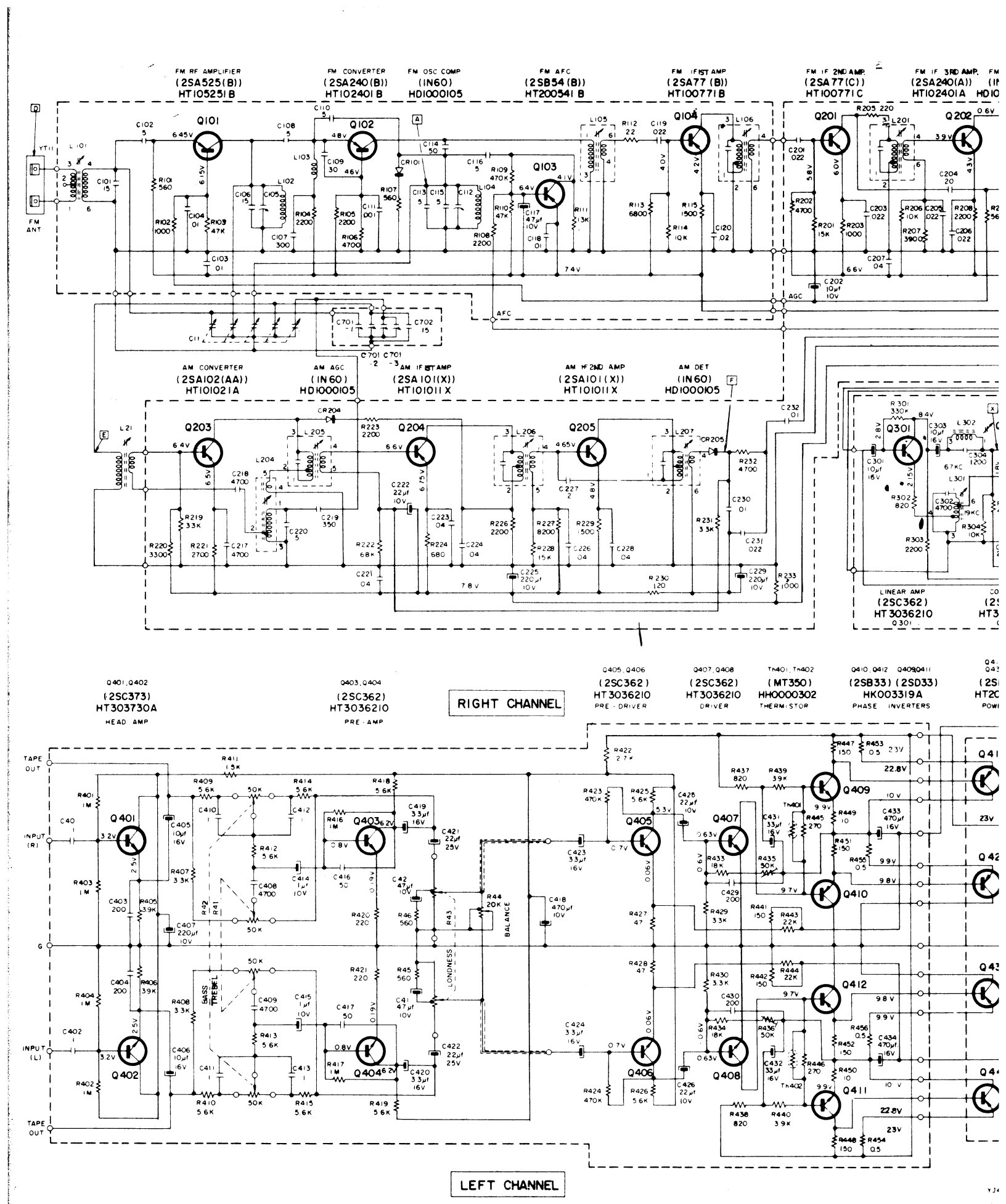


FM TUNER

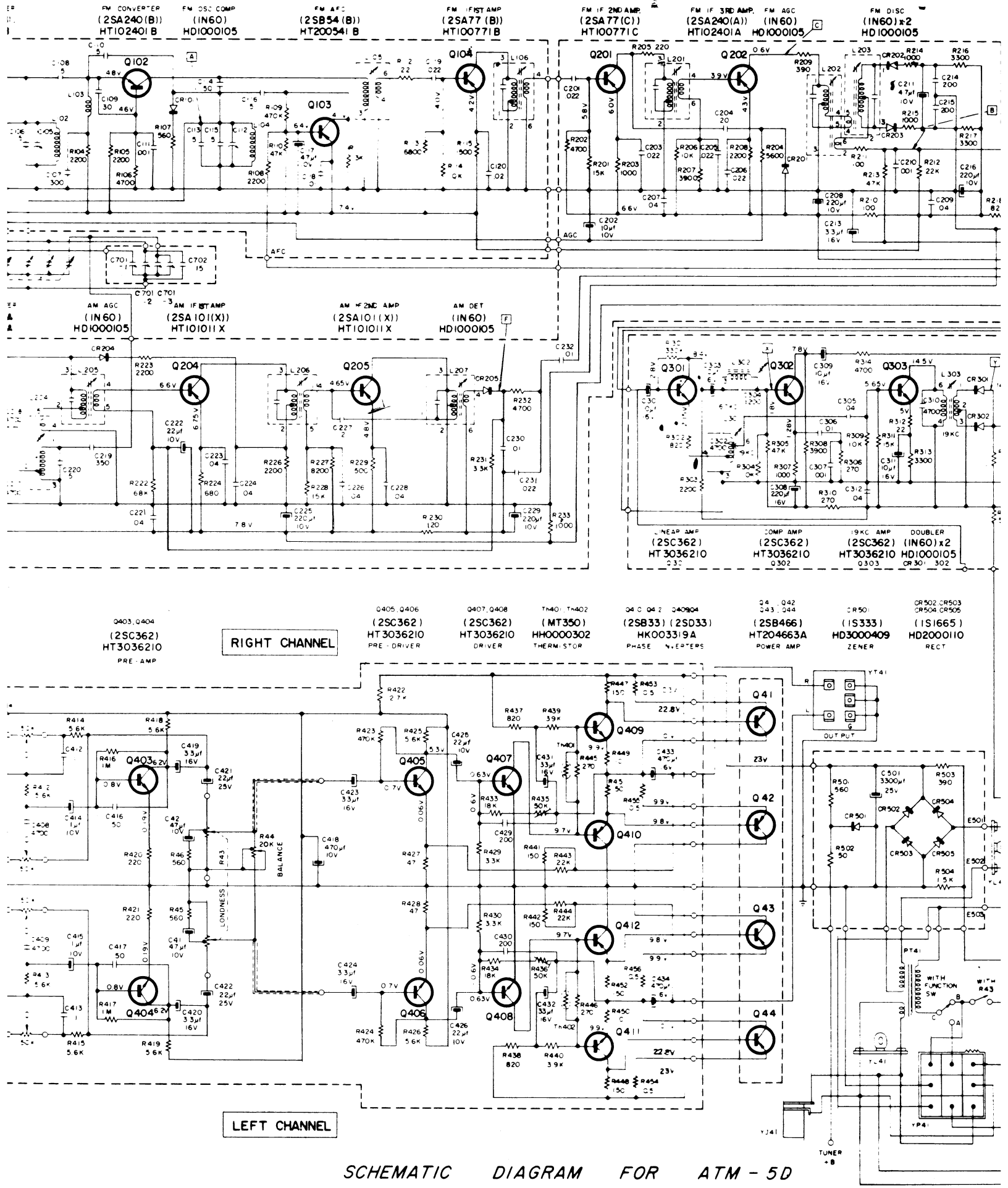


IF AMP - AM TUNER

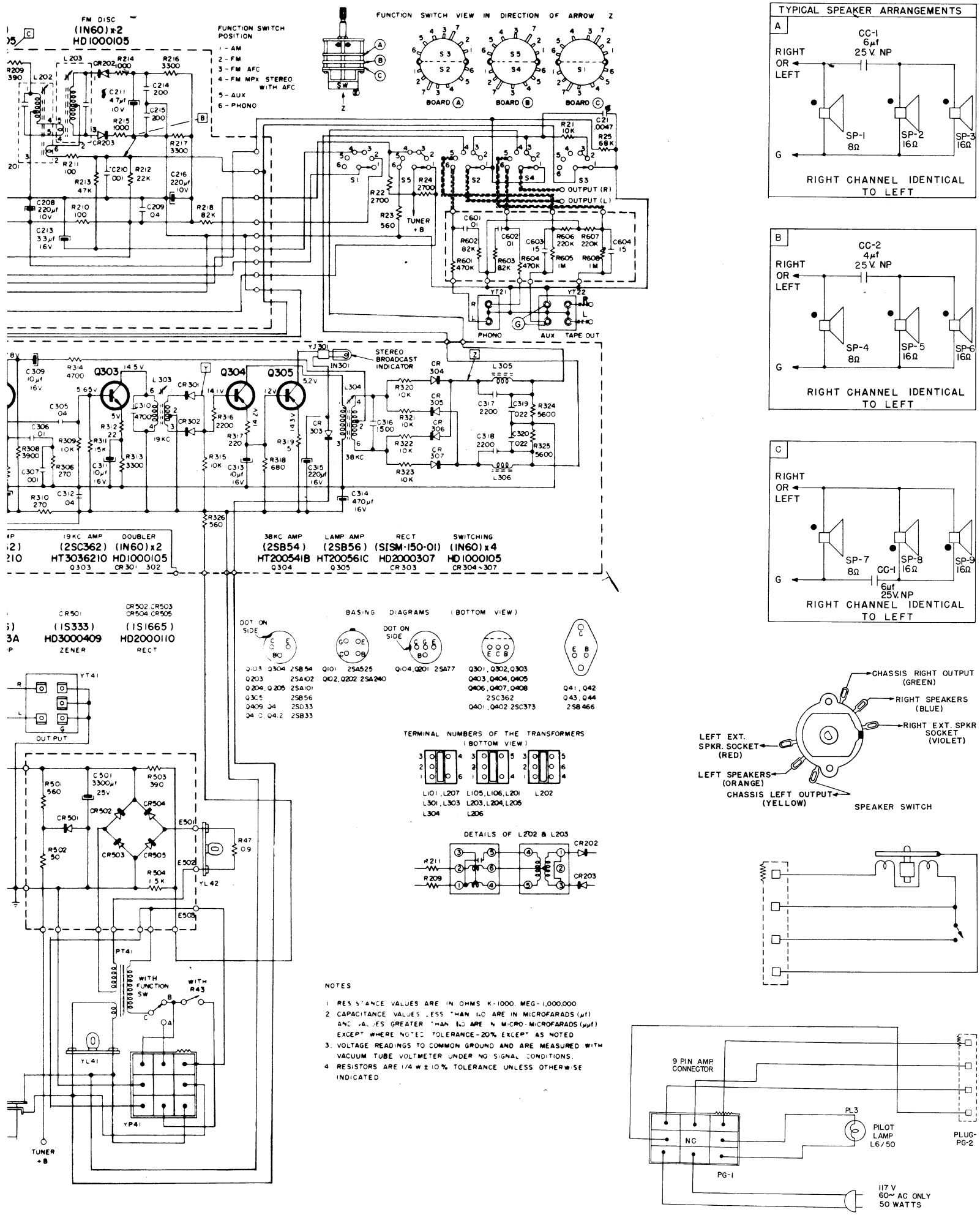

FM RF AMPLIFIER (2SA525(B)) HT105251B
FM CONVERTER (2SA240(B)) HT102401B
FM OSC COMP (IN60) HD1000105
FM AFC (2SB54(B)) HT200541B
FM IF 1ST AMP (2SA77(B)) HT100771B
FM IF 2ND AMP (2SA77(C)) HT100771C
FM IF 3RD AMP. (2SA240(A)) HT102401A
FM AGC (IN60) HD1000105
FM DISC (IN60)x2 HD1000105
FUNCTION SWITCH POSITION
1 - AM
2 - FM
3 - FM AFC
4 - FM MPX STEREO WITH AFC
5 - AUX
6 - PHONO
FUNCTION SWITCH VIEW IN DIRECTION OF ARROW Z
BOARD (A)
BOARD (B)
BOARD (C)
FM ANT
AFC
AGC
TUNER +B
OUTPUT (R)
OUTPUT (L)
PHONO
AUX
TAPE OUT
AM CONVERTER (2SA102(AA)) HT101021A
AM AGC (IN60) HD1000105
AM IF 1ST AMP (2SA101(X)) HT101011X
AM IF 2ND AMP (2SA101(X)) HT101011X
AM DET (IN60) HD1000105
STEREO BROADCAST INDICATOR
LINEAR AMP (2SC362) HT3036210 Q301
COMP AMP (2SC362) HT3036210 Q302
19KC AMP (2SC362) HT3036210 Q303
DOUBLER (IN60)x2 HD1000105 CR301 302
38KC AMP (2SB54) HT200541B Q304
LAMP AMP (2SB56) HT200561C Q305
RECT (S1SM-150-01) HD2000307 CR303
SWITCHING (IN60)x4 HD1000105 CR304~307
Q401,Q402 (2SC373) HT303730A HEAD AMP
Q403,Q404 (2SC362) HT3036210 PRE-AMP
RIGHT CHANNEL
Q405,Q406 (2SC362) HT3036210 PRE-DRIVER
Q407,Q408 (2SC362) HT3036210 DRIVER
TH401,TH402 (MT350) HH0000302 THERMISTOR
Q410,Q412 Q409Q411 (2SB33)(2SD33) HK003319A PHASE INVERTERS
Q41,Q42 Q43,Q44 (2SB466) HT204663A POWER AMP
CR501 (1S333) HD3000409 ZENER
CR502 CR503 CR504 CR505 (1S1665) HD2000110 RECT
LEFT CHANNEL
TAPE OUT
INPUT (R)
INPUT (L)
BALANCE
LOUDNESS
BASS
TREBLE
OUTPUT
TUNER +B
WITH FUNCTION SW
WITH R43
SCHEMATIC DIAGRAM FOR ATM-5D
BASING DIAGRAMS (BOTTOM VIEW)
Q103 Q304 2SB54 Q203 Q204 Q205 Q305 Q409 Q4 Q410 Q412 2SA102 2SA101 2SB56 2SD33 2SB33
Q101 2SA525 Q102,Q202 2SA240
Q104,Q201 2SA77
Q301,Q302,Q303 Q403,Q404,Q405 Q406,Q407,Q408 2SC362 Q401,Q402 2SC373
Q41,Q42 Q43,Q44 2SB466
TERMINAL NUMBERS OF THE TRANSFORMERS (BOTTOM VIEW)
L101,L207 L105,L106,L201 L301,L303 L203,L204,L205 L304 L206
L202
DETAILS OF L202 & L203
NOTES
1 RESISTANCE VALUES ARE IN OHMS K=1000, MEG=1,000,000
2 CAPACITANCE VALUES LESS THAN 1.0 ARE IN MICROFARADS (μf) AND VALUES GREATER THAN 1.0 ARE IN MICRO-MICROFARADS (μμf) EXCEPT WHERE NOTED. TOLERANCE-20% EXCEPT AS NOTED
3 VOLTAGE READINGS TO COMMON GROUND AND ARE MEASURED WITH VACUUM TUBE VOLTMETER UNDER NO SIGNAL CONDITIONS.
4 RESISTORS ARE 1/4W ± 10% TOLERANCE UNLESS OTHERWISE INDICATED
TYPICAL SPEAKER ARRANGEMENTS
A
CC-1 6μf 25V NP
RIGHT OR LEFT
SP-1 8Ω
SP-2 16Ω
SP-3 16Ω
G
RIGHT CHANNEL IDENTICAL TO LEFT
B
CC-2 4μf 25V NP
RIGHT OR LEFT
SP-4 8Ω
SP-5 16Ω
SP-6 16Ω
G
RIGHT CHANNEL IDENTICAL TO LEFT
C
RIGHT OR LEFT
SP-7 8Ω
SP-8 16Ω
SP-9 16Ω
CC-1 6μf 25V NP
G
RIGHT CHANNEL IDENTICAL TO LEFT
CHASSIS RIGHT OUTPUT (GREEN)
RIGHT SPEAKERS (BLUE)
RIGHT EXT. SPKR SOCKET (VIOLET)
LEFT EXT. SPKR. SOCKET (RED)
LEFT SPEAKERS (ORANGE)
CHASSIS LEFT OUTPUT (YELLOW)
SPEAKER SWITCH
9 PIN AMP CONNECTOR
PL3
PILOT LAMP L6/50
PLUG-PG-2
PG-1
NC
117 V 60~ AC ONLY 50 WATTS



SCHEMATIC DIAGRAM FOR ATM - 5


FM CONVERTER (2SA240(B)) HT102401B
FM OSC COMP (IN60) HD1000105
FM AFC (2SB54(B)) HT200541B
FM IFIST AMP (2SA77(B)) HT100771B
FM IF 2ND AMP. (2SA77(C)) HT100771C
FM IF 3RD AMP. (2SA240(A)) HT102401A
FM AGC (IN60) HD1000105
FM DISC (IN60)x2 HD1000105
AM AGC (IN60) HD1000105
AM IF1ST AMP (2SA101(X)) HT101011X
AM IF2ND AMP (2SA101(X)) HT101011X
AM DET (IN60) HD1000105
LINEAR AMP (2SC362) HT3036210 Q301
COMP AMP (2SC362) HT3036210 Q302
19KC AMP (2SC362) HT3036210 Q303
DOUBLER (IN60)x2 HD1000105 CR301 302
Q403, Q404 (2SC362) HT3036210 PRE-AMP
RIGHT CHANNEL
Q405, Q406 (2SC362) HT3036210 PRE-DRIVER
Q407, Q408 (2SC362) HT3036210 DRIVER
TH401, TH402 (MT350) HH0000302 THERMISTOR
Q409, Q410, Q411, Q412 (2SB33) (2SD33) HK003319A PHASE INVERTERS
Q41, Q42, Q43, Q44 (2SB466) HT204663A POWER AMP
CR501 (1S333) HD3000409 ZENER
CR502, CR503, CR504, CR505 (1S1665) HD2000110 RECT
OUTPUT
BALANCE
LOUDNESS
WITH FUNCTION SW
WITH R43
TUNER +B
LEFT CHANNEL

SCHEMATIC DIAGRAM FOR ATM-5D


FM DISC
(IN60)x2
HD1000105
FUNCTION SWITCH POSITION
1 - AM
2 - FM
3 - FM AFC
4 - FM MPX STEREO WITH AFC
5 - AUX
6 - PHONO
FUNCTION SWITCH VIEW IN DIRECTION OF ARROW Z
BOARD (A)
BOARD (B)
BOARD (C)
OUTPUT (R)
OUTPUT (L)
TUNER +B
PHONO
AUX
TAPE OUT
STEREO BROADCAST INDICATOR
19KC AMP (2SC362) HT3036210 Q303
DOUBLER (IN60)x2 HD1000105 CR301 302
38KC AMP (2SB54) HT200541B Q304
LAMP AMP (2SB56) HT200561C Q305
RECT (SISM-150-01) HD2000307 CR303
SWITCHING (IN60)x4 HD1000105 CR304~307
CR501 (1S333) HD3000409 ZENER
CR502 CR503 CR504 CR505 (1S1665) HD2000110 RECT
OUT PUT
BASING DIAGRAMS (BOTTOM VIEW)
DOT ON SIDE
Q103 Q304 2SB54
Q203 2SA102
Q204, Q205 2SA101
Q305 2SB56
Q409 Q4 2SD33
Q4 0, Q412 2SB33
Q101 2SA525
Q102, Q202 2SA240
Q104, Q201 2SA77
Q301, Q302, Q303
Q403, Q404, Q405
Q406, Q407, Q408
2SC362
Q401, Q402 2SC373
Q41, Q42
Q43, Q44
2SB466
TERMINAL NUMBERS OF THE TRANSFORMERS (BOTTOM VIEW)
L101, L207
L301, L303
L304
L105, L106, L201
L203, L204, L205
L206
L202
DETAILS OF L202 & L203
CR202
CR203
R211
R209
WITH FUNCTION SW
WITH R43
TUNER +B
NOTES
1 RESISTANCE VALUES ARE IN OHMS K-1000, MEG-1,000,000
2 CAPACITANCE VALUES LESS THAN 1.0 ARE IN MICROFARADS (μf) AND VALUES GREATER THAN 1.0 ARE IN MICRO-MICROFARADS (μμf) EXCEPT WHERE NOTED TOLERANCE-20% EXCEPT AS NOTED
3 VOLTAGE READINGS TO COMMON GROUND AND ARE MEASURED WITH VACUUM TUBE VOLTMETER UNDER NO SIGNAL CONDITIONS.
4 RESISTORS ARE 1/4 W ± 10% TOLERANCE UNLESS OTHERWISE INDICATED
TYPICAL SPEAKER ARRANGEMENTS
A
CC-1 6μf 25 V. NP
RIGHT OR LEFT
SP-1 8Ω
SP-2 16Ω
SP-3 16Ω
G
RIGHT CHANNEL IDENTICAL TO LEFT
B
CC-2 4μf 25 V. NP
RIGHT OR LEFT
SP-4 8Ω
SP-5 16Ω
SP-6 16Ω
G
RIGHT CHANNEL IDENTICAL TO LEFT
C
RIGHT OR LEFT
SP-7 8Ω
SP-8 16Ω
SP-9 16Ω
CC-1 6μf 25V. NP
G
RIGHT CHANNEL IDENTICAL TO LEFT
CHASSIS RIGHT OUTPUT (GREEN)
RIGHT SPEAKERS (BLUE)
RIGHT EXT. SPKR SOCKET (VIOLET)
LEFT EXT. SPKR. SOCKET (RED)
LEFT SPEAKERS (ORANGE)
CHASSIS LEFT OUTPUT (YELLOW)
SPEAKER SWITCH
9 PIN AMP CONNECTOR
NC
PG-1
PL3
PILOT LAMP L6/50
PLUG-PG-2
117 V 60~ AC ONLY 50 WATTS